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	DISTRIBUTION POLICY (a)	DISTRIBUTION POLICY (b)	
OLICY	ESP TUNNEL MODE DES - CBC HMAC - MD5 - 96 3600 SECONDS	ESP TRANSPORT MODE 3DES - CBC HMAC - SHA - 1 - 96 3600 SECONDS	
DISTRIBUTION POLICY	IPSEC PROTOCOL ENCAPSULATION MODE ENCRYPTION ALGORITHM AUTHENTICATION ALGORITHM TERM OF VALIDITY OF SA	IPSEC PROTOCOL ENCAPSULATION MODE ENCRYPTION ALGORITHM AUTHENTICATION ALGORITHM TERM OF VALIDITY OF SA	
ADDRESS PAIR	IPsec PROCESSING APPARATUS 2b	IPsec PROCESSING APPARATUS 2c	
ADDRES	IPsec PROCESSING APPARATUS 2a	IPsec PROCESSING APPARATUS 2d	

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AMETERS	DISTRIBUTION POLICY (a) SA PARAMETER (a) SA PARAMETER (b)			DISTRIBUTION POLICY (a)	DISTRIBUTION POLICY (a)
SETTING PARAMETERS	APPLICATION POLICY SA PARAMETER FOR 2a → 2b S. SA PARAMETER FOR 2b → 2a S.			APPLICATION POLICY SA PARAMETER FOR 2a → 2b SA PARAMETER FOR 2b → 2a	
	APPLIC SA PA SA PA		-	APPLIC SA PA SA PA	APPLIC SA PA SA PA
SPI	5100		6100	6100	5110
PARTY REQUEST ID	1001		2001	1002	1002
OPPOSITE PARTY ADDRESS	IPsec PROCESSING APPARATUS 2b	IPsec	PROCESSING APPARATUS 2a	PROCESSING APPARATUS 2a IPsec PROCESSING APPARATUS 2b	PROCESSING APPARATUS 2a IPSec APPARATUS 2b IPSec PROCESSING APPARATUS 2a
REQUEST SOURCE ADDRESS	IPsec PROCESSING APPARATUS 2a	IPsec BPOCESSING	APPARATUS 2b	APPARATUS 2b IPsec PROCESSING APPARATUS 2a	APPARATUS 2b IPsec PROCESSING APPARATUS 2a IPsec PROCESSING APPARATUS 2b
Q)	-			N	

F1G. 4

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IPsec PROTOCOL	ESP
ENCAPSULATION MODE	TUNNEL MODE
ENCRYPTION ALGORITHM	DES - CBC
AUTHENTICATION ALGORITHM	HMAC - MD5 - 96
TERM OF VALIDITY	3600 SECONDS
ENCRYPTION KEY	0x7d5e837ad
AUTHENTICATION KEY	0x89e562bfc
IV	0xc32fbe004
RECEPTION SIDE SPI	6100

FIG.6

MESSAGE TYPE	REQUEST MESSAGE
ID	1001
REQUEST SOURCE ADDRESS	IPsec PROCESSING APPARATUS 2a
OPPOSITE PARTY ADDRESS	IPsec PROCESSING APPARATUS 2b
SPI	5100

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FIG.7

MESSAGE TYPE	DISTRIBUTION MESSAGE
ID	1001
REQUEST SOURCE ADDRESS	IPsec PROCESSING APPARATUS 2a
OPPOSITE PARTY ADDRESS	IPsec PROCESSING APPARATUS 2b
SETTING PARAMETER	
OPERATION POLICY	DISTRIBUTION POLICY (a)
SA PARAMETER FOR 2a → 2b	SA PARAMETER (a)
SA PARAMETER FOR 2b → 2a	SA PARAMETER (b)

FIG.8

MESSAGE TYPE	REQUEST STARTUP MESSAGE
OPPOSITE PARTY ADDRESS	IPsec PROCESSING APPARATUS 2a

MESSAGE TYPE	NO CORRESPONDING ENTRY ERROR MESSAGE
ID	1001
REQUEST SOURCE ADDRESS	IPsec PROCESSING APPARATUS 2a
OPPOSITE PARTY ADDRESS	IPsec PROCESSING APPARATUS 2b

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FIG. 10

MESSAGE TYPE	CONTENT INC ERROR MESS	CONSISTENCY SAGE
ID	1001	
REQUEST SOURCE ADDRESS	IPsec PROCESSIN	IG APPARATUS 2a
OPPOSITE PARTY ADDRESS	IPsec PROCESSIN	IG APPARATUS 2b
	ID	SPI
ENTRY LIST	1001	5100
	1002	5110

MESSAGE TYPE	NO - RESPONSE ERROR MESSAGE
ID	1001
REQUEST SOURCE ADDRESS	IPsec PROCESSING APPARATUS 2a
OPPOSITE PARTY ADDRESS	IPsec PROCESSING APPARATUS 2b

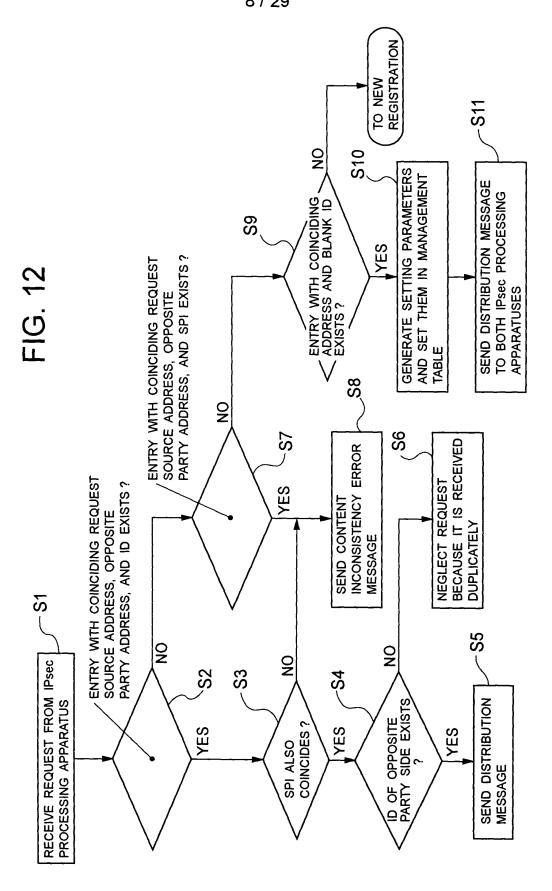
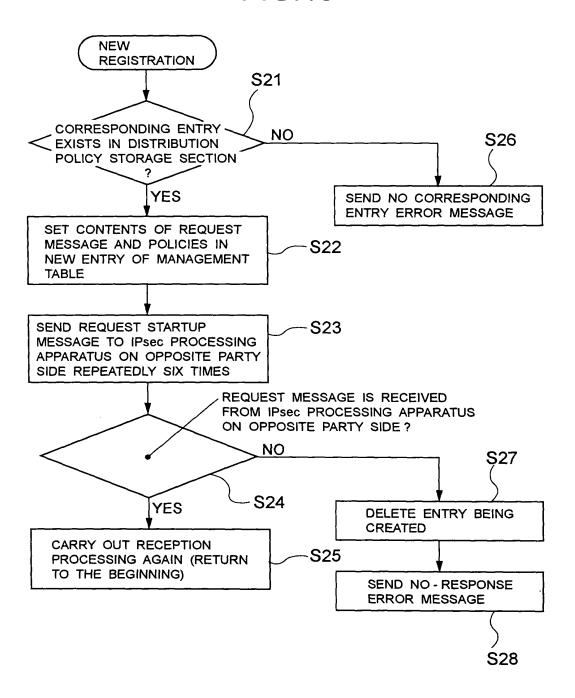
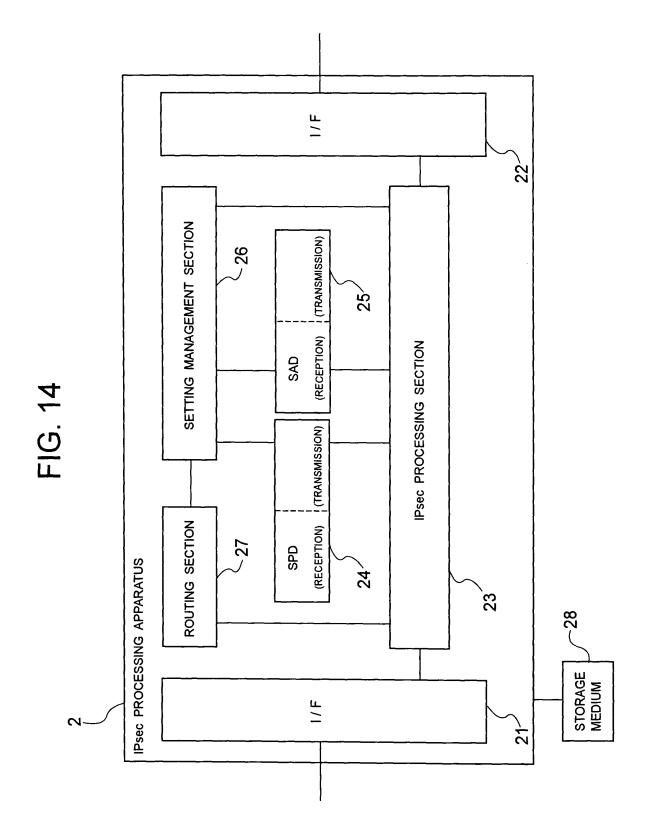


FIG.13





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Ω	SELECTOR	PROCESS	PROCESS IPsec APPLICATION POLICY	OPPOSITE PARTY ADDRESS FOR SETTING REQUEST
-	APPARATUS OF ITS OWN → SETTING SERVER 1	Descl	APPLICATION POLICY (z)	
7	2 TO PRIVATE NETWORK 202	IPsec		IPsec PROCESSING APPARATUS 2b
က	3 TO PRIVATE NETWORK 203	IPsec		IPsec PROCESSING APPARATUS 2c
4	4 ALL OTHER THAN THE ABOVE	PASS		

FIG 15

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IPsec APPLICATION	POLICY
IPsec PROTOCOL	ESP
ENCAPSULATION MODE	TRANSPORT MODE
OPPOSITE PARTY ADDRESS	SETTING SERVER 1
ENCRYPTION ALGORITHM	AES - CBC
AUTHENTICATION ALGORITHM	HMAC - SHA - 1 - 96
TERM OF VALIDITY OF SA	3600 SECONDS
IKE POLIC	Υ
OPPOSITE PARTY IPSEC PROCESSING APPARATUS ADDRESS	SETTING SERVER 1
OPPOSITE PARTY AUTHENTICATION SYSTEM	PRIOR COMMON SECRET KEY
PRIOR COMMON SECRET KEY	password - for - ike
ENCRYPTION ALGORITHM	DES - CBC
HASH ALGORITHM	MD5
Oakley GROUP	1536 BIT MODP GROUP
TERM OF VALIDITY OF SA	3600 SECONDS

	KEY PARAMETERS	ETERS		ETENNAGAG AS	0
TERMINAL AI	DDRESS	IPsec	ldS	SA PAKAWETEKS	43
IPsec PROC APPARATUS	S 2b	ESP	6100	ENCAPSULATION MODE ENCRYPTION ALGORITHM AUTHENTICATION ALGORITHM ENCRYPTION KEY AUTHENTICATION KEY IV TERM OF VALIDITY SEQUENCE NUMBER	TUNNEL MODE DES - CBC HMAC - MD5 - 96 0x7d5e837ad 0x83e562bfc 0xc32fbe004 3600 SECONDS
SETTING SERVER 1	ERVER 1	ESP	6100	ENCAPSULATION MODE ENCRYPTION ALGORITHM AUTHENTICATION ALGORITHM ENCRYPTION KEY AUTHENTICATION KEY IV TERM OF VALIDITY SEQUENCE NUMBER	TRANSPORT MODE AES - CBC HMAC - SHA - 96 0xda738e5d7 0xcfb265c98 0xc399ebf22 3600 SECONDS 2133

FIG. 17

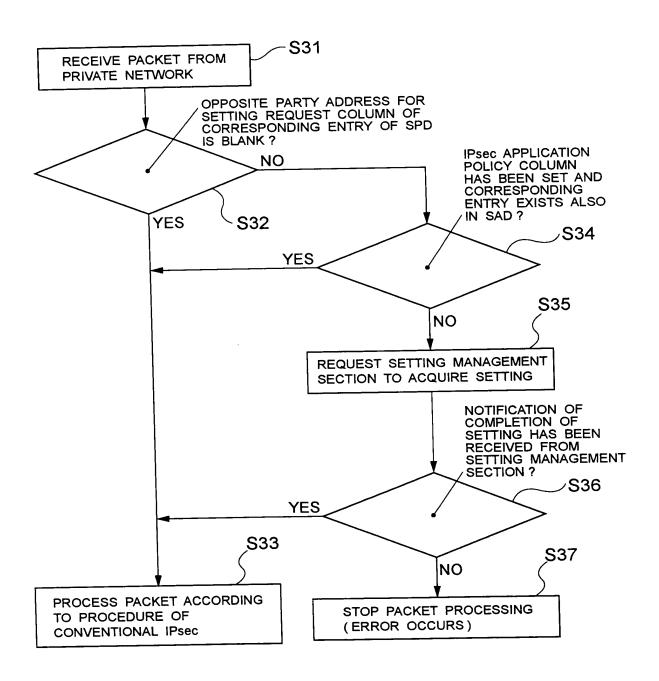


FIG. 19

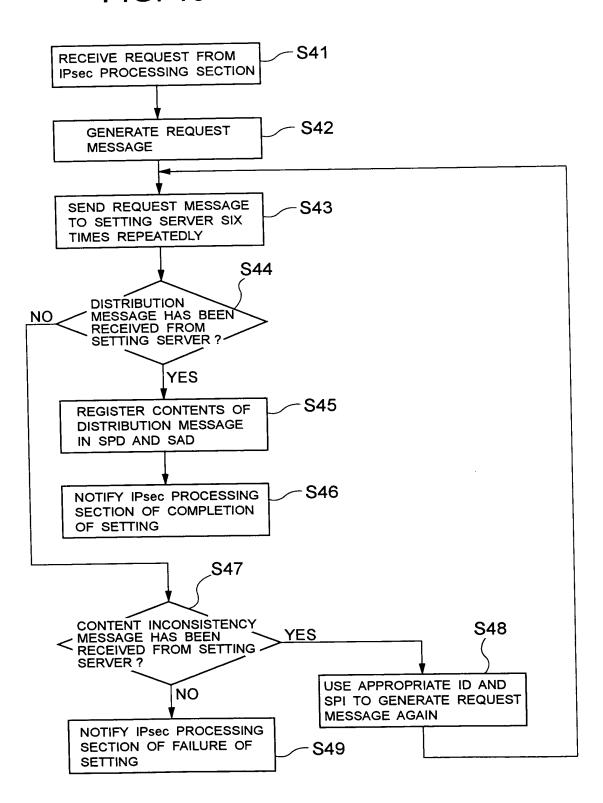
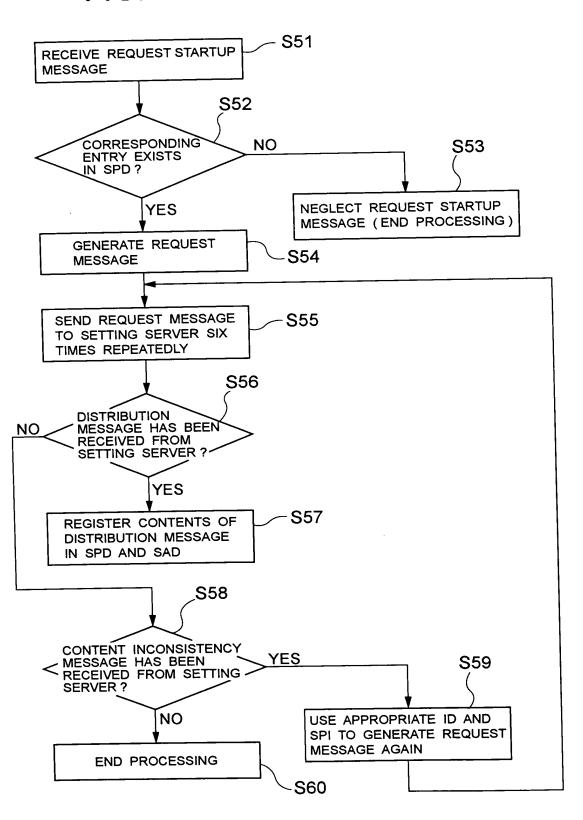


FIG. 20



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□	SELECTOR	PROCESSING	IPsec APPLICATION POLICY
-	IPsec SETTING SERVER 1 → IPsec PROCESSING APPARATUS 2a	IPsec	APPLICATION POLICY (v)
2	IPsec SETTING SERVER 1 → IPsec PROCESSING APPARATUS 2b	IPsec	APPLICATION POLICY (w)
က	IPsec SETTING SERVER 1 → IPsec PROCESSING APPARATUS 2c	IPsec	APPLICATION POLICY (x)
4	IPsec SETTING SERVER 1 → IPsec PROCESSING APPARATUS 2d	IPsec	APPLICATION POLICY (y)
2	ALL OTHER THAN THE ABOVE	DISPOSAL	

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IPsec APPLICATION	N POLICY			
IPsec PROTOCOL	ESP			
ENCAPSULATION MODE	TRANSPORT MODE			
OPPOSITE PARTY ADDRESS	IPsec PROCESSING APPARATUS 2a			
ENCRYPTION ALGORITHM	AES - CBC			
AUTHENTICATION ALGORITHM	HMAC - SHA - 1 - 96			
TERM OF VALIDITY OF SA	3600 SECONDS			
IKE POLIC	CY			
OPPOSITE PARTY IPsec PROCESSING APPARATUS ADDRESS	IPsec PROCESSING APPARATUS 2A			
OPPOSITE PARTY RECOGNITION SYSTEM	PRIOR COMMON SECRET KEY			
PRIOR COMMON SECRET KEY	password - for - ike			
ENCRYPTION ALGORITHM	DES - CBC			
HASH ALGORITHM	MD5			
Oakley GROUP	1536 BIT MODP GROUP			
TERM OF VALIDITY OF SA	3600 SECONDS			

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۵I	SELECTOR	PROCESSING	IPsec APPLICATION POLICY
1	TO PRIVATE NETWORK 202	IPsec	APPLICATION POLICY (j)
2	TO PRIVATE NETWORK 203	IPsec	APPLICATION POLICY (k)
3	ALL OTHER THAN THE ABOVE	PASS	

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IPsec APPLICATION POLICY				
IPsec PROTOCOL	ESP			
ENCAPSULATION MODE	TUNNEL MODE			
OPPOSITE PARTY ADDRESS	IPsec PROCESSING APPARATUS 2b			
ENCRYPTION ALGORITHM	AES - CBC			
AUTHENTICATION ALGORITHM	HMAC - MD5 - 96			
TERM OF VALIDITY OF SA	3600 SECONDS			
IKE POLIC	;Y			
OPPOSITE PARTY IPsec PROCESSING APPARATUS ADDRESS	IPsec PROCESSING APPARATUS 2b			
OPPOSITE PARTY AUTHENTICATION SYSTEM	PRIOR COMMON SECRET KEY			
PRIOR COMMON SECRET KEY	password			
ENCRYPTION ALGORITHM	DES - CBC			
HASH ALGORITHM	MD5			
Oakley GROUP	1536 BIT MODP GROUP			
TERM OF VALIDITY OF SA	3600 SECONDS			

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RAMETERS	DISTRIBUTION POLICY (a)			
SETTING PARAMETERS	APPLICATION POLICY SA PARAMETER FOR 2a → 2b SA PARAMETER FOR 2b → 2a		APPLICATION POLICY	
SPI	5100			
PARTY REQUEST ID	1001			
OPPOSITE ADDRESS	IPsec PROCESSING APPARATUS 2b	IPsec PROCESSING APPARATUS 2a		
REQUEST SOURCE ADDRESS	IPsec PROCESSING APPARATUS 2a	IPsec PROCESSING APPARATUS 2b		
Ω	~	-	2	ю

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Ö	SELECTOR	PROCESSING	PROCESSING IPsec APPLICATION POLICY	OPPOSITE PARTY ADDRESS FOR SETTING REQUEST
-	APPARATUS OF ITS OWN -> SETTING SERVER 1	Psec	APPLICATION POLICY (z)	
2	TO PRIVATE NETWORK 202	(Psec	APPLICATION POLICY (a)	IPsec PROCESSING APPARATUS 2b
က	3 TO PRIVATE NETWORK 203	Psec		IPsec PROCESSING APPARATUS 2c
4	ALL OTHER THAN THE ABOVE	PASS		

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₽	REQUEST SOURCE ADDRESS	OPPOSITE PARTY REQUEST ADDRESS	REQUEST ID	SPI	SETTING PARAMETERS	RAMETERS
~	IPsec PROCESSING APPARATUS 2a	IPsec PROCESSING APPARATUS 2b	1001	5100	APPLICATION POLICY SA PARAMETER FOR 2a → 2b SA PARAMETER FOR 2b → 2a	DISTRIBUTION POLICY (a) SA PARAMETER (a) SA PARAMETER (b)
	IPsec PROCESSING APPARATUS 2b	IPsec PROCESSING APPARATUS 2a	2001	6100		
2	IPsec PROCESSING APPARATUS 2a	IPsec PROCESSING APPARATUS 2b	1002	5110	APPLICATION POLICY SA PARAMETER FOR 2a → 2b SA PARAMETER FOR 2b → 2a	DISTRIBUTION POLICY (a) SA PARAMETER (c) SA PARAMETER (d)
	IPsec PROCESSING APPARATUS 2b	IPsec PROCESSING APPARATUS 2a	2002	6110		
8						

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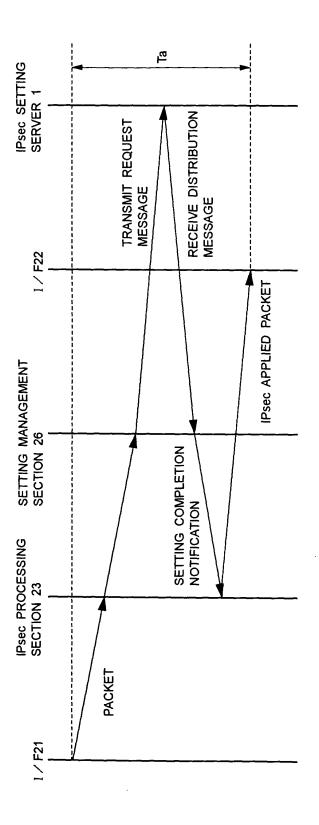
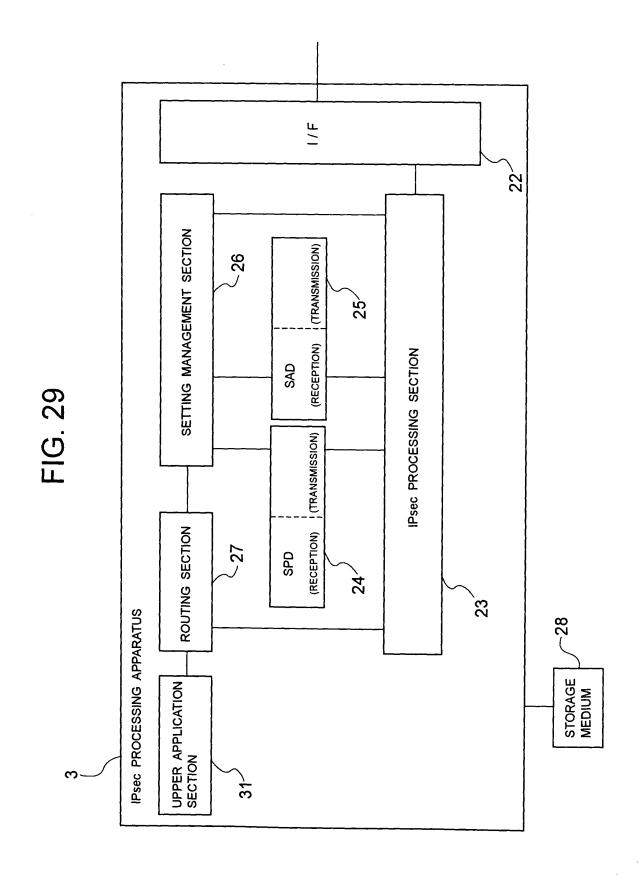


FIG. 28

Fitle: NETWORK, IPsec SETTING SERVER
APPARATUS, IPsec PROCESSING
APPARATUS, AND IPsec SETTING
METHOD USED THEREFOR
Inventor(s): Masanao SAKAI
DOCKET NO.: 053969-0157
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	DISTRIBUTION POLICY (b)	DISTRIBUTION POLICY (a)
) JLICY	ESP TRANSPORT MODE 3DES - CBC HMAC - SHA - 1 - 96 3600 SECONDS	ESP TUNNEL MODE DES - CBC HMAC - MD5 - 96 3600 SECONDS
DISTRIBUTION POLICY	IPSEC PROTOCOL ENCAPSULATION MODE ENCRYPTION ALGORITHM AUTHENTICATION ALGORITHM TERM OF VALIDITY OF SA	IPSEC PROTOCOL ENCAPSULATION MODE ENCRYPTION ALGORITHM AUTHENTICATION ALGORITHM TERM OF VALIDITY OF SA
SS PAIR	IPsec PROCESSING APPARATUS 2e	AAN THE ABOVE
ADDRESS	IPsec PROCESSING APPARATUS 2d	ALL OTHER THAN

FIG. 3(

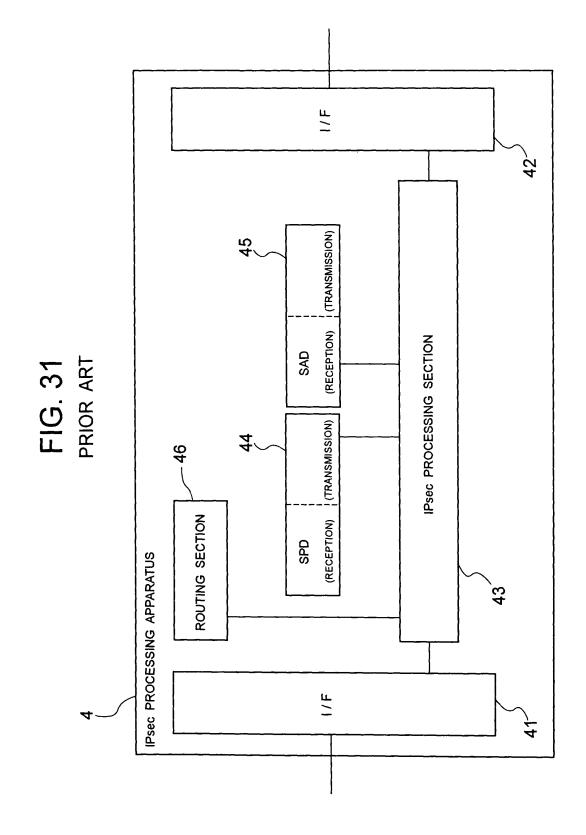
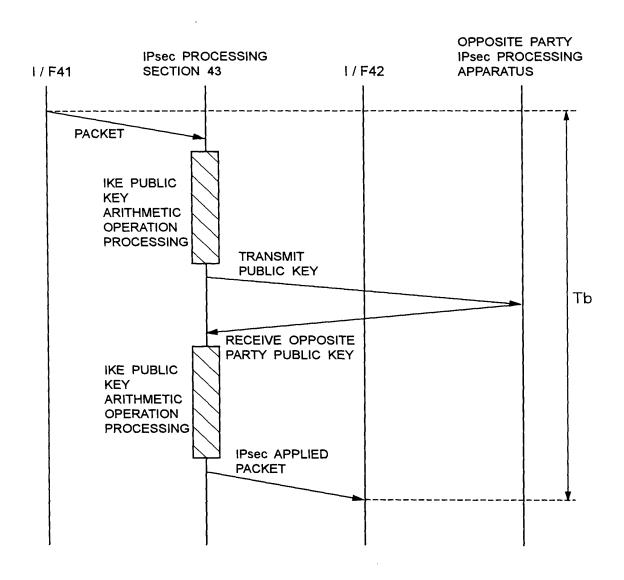


FIG. 32 PRIOR ART



Fitle: NETWORK, IPsec SETTING SERVER APPARATUS, IPsec PROCESSING APPARATUS, AND IPsec SETTING METHOD USED THEREFOR Inventor(s): Masanao SAKAI DOCKET NO.: 053969-0157

